

Please type a plus sign (+) inside this box → ☐**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Applicati n Numb r	10/619,216
Filing Date	July 14, 2003
First Named Invent r	Verard, et al.
Group Art Unit	To Be Assigned
Examiner Name	To Be Assigned
Attorney Docket Number	5074A-000060/CPA

Total Number of Pages in This Submission

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>1449 Form (15 sheets); return postcard.</b>
<b>Remarks</b>		<b>The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.</b>

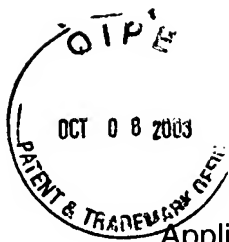
**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	Richard W. Warner	Reg. No.	38,043
Signature					
Date	Oct. 2, 2003				

**CERTIFICATE OF MAILING/TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

Typed or printed name	Richard W. Warner		
Signature		Date	Oct. 2, 2003



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/619,216  
Filing Date: July 14, 2003  
Applicant: Hunter, et al.  
Group Art Unit: 3739  
Examiner: To Be Assigned  
Title: NAVIGATION SYSTEM FOR CARDIAC THERAPIES  
Attorney Docket: 5074A-000060/CPA

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Director of the United States Patent  
and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A. \_\_\_ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. X Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number  
10/299,969

U.S. Filing Date  
November 19, 2002

C. \_\_\_ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. \_\_\_ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. \_\_\_ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. \_\_\_ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. \_\_\_ See the attached foreign patent office communication from a counterpart foreign application:

2. X English translations are provided for:

WO 88/09151 Abstract, WO 91/04711 Abstract, EP 0 581 704 B1 equivalent to U.S. 5,447,154, French 2417970 equivalent to U.S. 4,418,422.

3. X Other:

German Patent DE 3042343A1 appears to disclose a system for locating an object in space.

An English Abstract or translation is provided for Other Documents reference designations 39, 44, and 59.

Other Documents reference designation 53, Sautot "Vissag PEDICULAIRE ASSISTE PARORDINATEUR" appears to disclose a fluoroscopic image guidance system.

C. \_\_\_ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. \_\_\_ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. X 37 C.F.R. § 1.97(b): (check only one box)

1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. \_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. \_\_\_ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. \_\_\_ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. \_\_\_ 37 C.F.R. § 1.97(c): (check only one box)

• before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. \_\_\_ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. \_\_\_ See the certification below. No fee is required.

C. \_\_\_\_ 37 C.F.R. § 1.97(d):

- after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. \_\_\_\_ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. \_\_\_\_ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. \_\_\_\_ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. \_\_\_\_ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

\_\_\_\_ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. ☐ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.


The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: Oct. 2, 2003

By:   
Richard W. Warner  
Reg. No. 38,043

HARNESS, DICKEY & PIERCE, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 15

ATTORNEY DOCKET No.	SERIAL No.
5074A-000060/CPA	10/619,216
APPLICANT	
Verard, et al.	
FILING DATE	GROUP
July 14, 2003	To Be Assigned

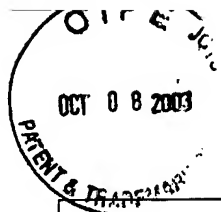
**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		Re. 35,025	08/1995	Anderton		
2.		1,576,781	03/1926	Phillips		
3.		1,735,726	11/1929	Bornhardt		
4.		2,407,845	09/1946	Nemeyer		
5.		2,650,588	09/1953	Drew		
6.		2,697,433	12/1954	Sehnder		
7.		3,016,899	01/1962	Stenvall		
8.		3,017,887	01/1962	Heyer		
9.		3,061,936	11/1962	Dobbeleer		
10.		3,073,310	01/1963	Mocarski		
11.		3,294,083	12/1966	Alderson		
12.		3,367,326	02/1968	Frazier		
13.		3,577,160	05/1971	White		
14.		3,702,935	11/1972	Carey et al.		
15.		3,704,707	12/1972	Halloran		
16.		3,941,127	03/1976	Froning		
17.		4,037,592	07/1977	Kronner		
18.		4,052,620	10/1977	Brunnett		
19.		4,117,337	09/26/1978	Staats		
20.		4,202,349	05/1980	Jones		
21.		4,358,856	11/09/1982	Stivender et al.		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 2 of 15

ATTORNEY DOCKET NO.

SERIAL NO.

5074A-000060/CPA

10/619,216

APPLICANT

Verard, et al.

FILING DATE

GROUP

July 14, 2003

To Be Assigned

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.		4,368,536	01/1983	Pfeiler		
23.		4,403,321	09/1983	DiMarco		
24.		4,418,422	11/1983	Richter et al.		
25.		4,485,815	12/1984	Amplatz		
26.		4,543,959	10/01/1985	Sepponen		
27.		4,621,628	11/1986	Bludermann		
28.		4,625,718	12/1986	Olerud et al.		
29.		4,651,732	03/24/1987	Frederick		
30.		4,653,509	03/1987	Oloff et al.		
31.		4,706,665	11/17/1987	Gouda		
32.		4,722,056	01/26/1988	Roberts et al.		
33.		4,722,336	02/1988	Kim et al.		
34.		4,727,565	02/23/1988	Ericson		
35.		4,737,921	04/12/1988	Goldwasser et al.		
36.		4,750,487	06/1988	Zanetti		
37.		4,771,787	09/20/1988	Wurster et al.		
38.		4,791,934	12/20/1988	Brunnett		
39.		4,797,907	01/1989	Anderton		
40.		4,803,976	02/1989	Frigg et al.		
41.		4,821,206	04/11/1989	Arora		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





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**PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION**  
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Sheet 3 of 15

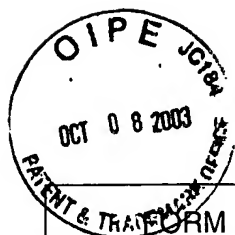
ATTORNEY DOCKET NO.	SERIAL No.
5074A-000060/CPA	10/619,216
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FILING DATE	GROUP
July 14, 2003	To Be Assigned

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
42.		4,845,771	07/1989	Wislocki et al.		
43.		4,905,698	03/1990	Strohl, et al.		
44.		4,991,579	02/12/1991	Allen		
45.		5,013,317	05/1991	Cole et al.		
46.		5,027,818	07/02/1991	Bova et al.		
47.		5,030,222	07/1991	Calandruccio et al.		
48.		5,031,203	07/1991	Trecha		
49.		5,042,486	08/1991	Pfeiler, et al.		
50.		5,059,789	10/22/1991	Salcudean		
51.		5,079,699	01/07/1992	Tuy et al.		
52.		5,094,241	03/10/1992	Allen		
53.		5,097,839	03/24/1992	Allen		
54.		5,107,839	04/28/1992	Houdek et al.		
55.		5,107,843	04/1992	Aarnio, et al.		
56.		5,118,845	09/2000	Simon, et al.		
57.		5,119,817	06/09/1992	Allen		
58.		5,142,930	09/01/1992	Allen et al.		
59.		5,178,164	01/12/1993	Allen		
60.		5,178,621	01/1993	Cook et al.		
61.		5,186,174	02/1993	Schlondorff et al.		

Examiner:

Date Considered:

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FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
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Sheet 4 of 15

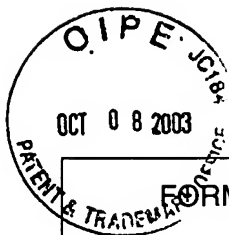
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July 14, 2003	To Be Assigned

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
62.		5,198,877	03/30/1993	Schulz		
63.		5,211,164	05/18/1993	Allen		
64.		5,211,165	05/1993	Dumoulin, et al.		
65.		5,212,720	05/1993	Landi et al.		
66.		5,219,351	06/1993	Teubner et al.		
67.		5,233,990	08/1993	Barnea		
68.		5,249,581	10/1993	Horbal et al.		
69.		5,251,127	10/1993	Raab		
70.		5,295,483	03/22/1994	Nowacki et al.		
71.		5,305,203	04/1994	Raab		
72.		5,309,913	05/10/1994	Kormos et al.		
73.		5,320,111	06/1994	Livingston		
74.		5,333,168	07/1994	Fernandes et al.		
75.		5,368,030	11/29/1994	Zinreich et al.		
76.		5,383,454	01/24/1995	Bucholz		
77.		5,389,101	02/1995	Heilbrun et al.		
78.		5,399,146	03/21/1995	Nowacki et al.		
79.		5,400,384	03/1995	Fernandes et al.		
80.		5,402,801	04/04/1995	Taylor		
81.		5,408,409	04/1995	Glassman et al.		

Examiner:

Date Considered:

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Sheet 5 of 15

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APPLICANT	
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July 14, 2003	To Be Assigned

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
82.		5,426,683	06/1995	O'Farrell, Jr., et al.		
83.		5,426,687	06/1995	Goodall et al.		
84.		5,427,097	06/1995	Depp		
85.		5,444,756	08/1995	Pai et al.		
86.		5,446,548	08/1995	Gerig et al.		
87.		5,447,154	09/05/1995	Cinquin et al.		
88.		5,448,610	09/1995	Yamamoto et al.		
89.		5,478,341	12/1995	Cook et al.		
90.		5,478,343	12/1995	Ritter		
91.		5,483,961	01/16/1996	Kelly et al.		
92.		5,490,196	02/06/1996	Rudich et al.		
93.		5,494,034	02/27/1996	Schlondorff et al.		
94.		5,494,034	02/1996	Schlondorff et al.		
95.		5,503,416	04/1996	Aoki et al.		
96.		5,515,160	05/07/1996	Schulz et al.		
97.		5,517,990	05/21/1996	Kalfas et al.		
98.		5,531,227	07/02/1996	Schneider		
99.		5,531,520	07/02/1996	Grimson et al.		
100.		5,568,809	10/29/1996	Ben-haim		
101.		5,571,083	11/1996	Lemelson		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 6 of 15

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10/619,216

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Verard, et al.

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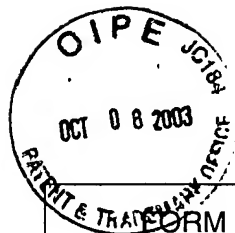
**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
102.		5,572,999	11/12/1996	Funda et al.		
103.		5,583,909	12/1996	Hanover		
104.		5,588,430	12/31/1996	Bova et al.		
105.		5,592,939	01/1997	Martinelli		
106.		5,596,228	01/1997	Anderton et al.		
107.		5,603,318	02/1997	Heilbrun et al.		
108.		5,617,462	04/1997	Spratt		
109.		5,617,857	04/08/1997	Chader et al.		
110.		5,619,261	04/1997	Anderton		
111.		5,622,170	04/22/1997	Schulz		
112.		5,627,873	05/1997	Hanover et al.		
113.		5,630,431	05/20/1997	Taylor		
114.		5,638,819	06/17/1997	Manwaring et al.		
115.		5,642,395	06/1997	Anderton et al.		
116.		5,647,361	07/15/1997	Damadian		
117.		5,662,111	09/02/1997	Cosman		
118.		5,664,001	09/1997	Tachibana et al.		
119.		5,676,673	10/14/1997	Ferre et al.		
120.		5,682,886	11/04/1997	Delp et al.		
121.		5,690,108	11/1997	Chakeres		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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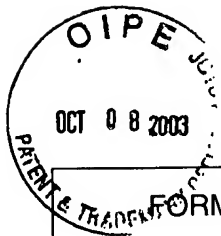
Sheet 7 of 15

ATTORNEY DOCKET No.	SERIAL No.
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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
122.		5,695,500	12/09/1997	Taylor et al.		
123.		5,695,501	12/09/1997	Carol et al.		
124.		5,711,299	01/27/1998	Manwaring et al.		
125.		5,715,836	02/10/1998	Kliegis et al.		
126.		5,748,767	05/1998	Raab		
127.		5,749,362	05/12/1998	Funda et al.		
128.		5,755,725	05/26/1998	Druais		
129.		5,769,789	06/23/1998	Wang et al.		
130.		5,769,861	06/1998	Vilsmeier		
131.		5,772,594	06/1998	Barrick		
132.		5,795,294	08/18/1998	Luber et al.		
133.		5,799,055	08/1998	Peshkin et al.		
134.		5,800,535	09/01/1998	Howard, III		
135.		5,802,719	09/1998	O'Farrell, Jr., et al.		
136.		5,823,192	10/1998	Kalend et al.		
137.		5,823,958	10/20/1998	Truppe		
138.		5,828,725	10/27/1998	Levinson		
139.		5,833,608	11/10/1998	Acker		
140.		5,834,759	11/10/1998	Glossop		
141.		5,836,954	11/1998	Heilbrun et al.		

Examiner:	Date Considered:
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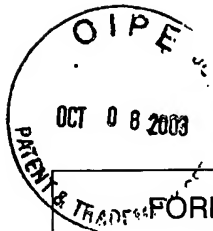
**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
142.		5,848,967	12/15/1998	Cosman		
143.		5,851,183	12/1998	Bucholz		
144.		5,868,675	02/09/1999	Henrion et al.		
145.		5,871,445	02/1999	Bucholz		
146.		5,871,487	02/16/1999	Warner et al.		
147.		5,891,034	04/1999	Bucholz		
148.		5,891,157	04/06/1999	Day et al.		
149.		5,904,691	05/18/1999	Barnett et al.		
150.		5,913,820	06/1999	Bladen, et al.		
151.		5,920,395	07/06/1999	Schulz		
152.		5,921,992	07/13/1999	Costales et al.		
153.		5,923,727	07/1999	Navab		
154.		5,935,160	08/1999	Auricchio, et al.		
155.		5,951,475	09/14/1999	Gueziec et al.		
156.		5,983,126	11/1999	Wittkampf		
157.		6,016,439	01/2000	Acker		
158.		6,050,724	04/2000	Schmitz et al.		
159.		6,104,944	08/2000	Martinelli		
160.		6,112,111	08/2000	Glantz		
161.		6,139,183	10/2000	Graumann		

Examiner:

Date Considered:

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To Be Assigned

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
162.		6,149,592	11/2000	Yanof et al.		
163.		6,167,296	12/2000	Shahidi		
164.		6,183,444	02/2001	Glines, et al.		
165.		6,192,280	02/2001	Sommer, et al.		
166.		6,203,493	03/2001	Ben-Haim		
167.		6,210,362	04/2001	Ponzi		
168.		6,213,995	04/2001	Steen, et al.		
169.		6,226,543	05/2001	Gilboa, et al.		
170.		6,236,875	05/2001	Bucholz, et al.		
171.		6,253,770	07/2001	Acker, et al.		
172.		6,381,485	04/2002	Hunter, et al.		
173.		6,470,207	10/2002	Simon, et al.		

**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		WO91/03982	04/1991	PCT			
2.		WO00/35531	06/2000	PCT			
3.		WO00/06701	02/2000	PCT			
4.		WO 98/38908	09/1998	PCT			
5.		WO 94/24933	11/1994	PCT			

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**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation	
						Yes	No
6.		WO 94/23647	10/27/1994	PCT			
7.		WO 96/11624	04/1996	PCT			
8.		WO 88/09151	12/1988	PCT		Abstract	
9.		WO 91/07726	05/1991	PCT			
10.		WO 92/06645	04/1992	PCT			
11.		WO 91/04711	04/1991	PCT		Abstract	
12.		0 581 704 B1	07/1993	EPO		U.S. Equiv	
13.		0350996 A1	01/1990	EPO			
14.		964149	03/1975	Canada			
15.		1078644	02/2001	EPO			
16.		2417970	02/20/1979	France		U.S. Equiv	
17.		DE 3042343 A1	06/1982	Germany			X

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

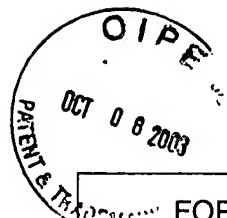
Ref. Desig.	Examiner's Initials	
1.		Adams et al., "Orientation Aid for Head and Neck Surgeons," Innov. Tech. Biol. Med., Vol. 13, No. 4, 1992, pp. 409-424.
2.		Barrick et al., "Prophylactic Intramedullary Fixation of the Tibia for Stress Fracture in a Professional Athlete," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 241-244 (1992).
3.		Barrick et al., "Technical Difficulties with the Brooker-Wills Nail in Acute Fractures of the Femur," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 144-150 (1990).

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



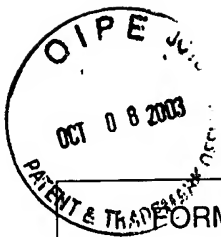


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	July 14, 2003	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
4.		Barrick, "Distal Locking Screw Insertion Using a Cannulated Drill Bit: Technical Note," Journal of Orthopaedic Trauma, Vol. 7, No. 3, 1993, pp. 248-251.
5.		Batnitzky et al., "Three-Dimensinal Computer Reconstructions of Brain Lesions from Surface Contours Provided by Computed Tomography: A Prospectus," Neurosurgery, Vol. 11, No. 1, Part 1, 1982, pp. 73-84.
6.		Bouazza-Marouf et al.; "Robotic-Assisted Internal Fixation of Femoral Fractures", IMECHE., pp. 51-58 (1995)
7.		Brack et al., "Accurate X-ray Based Navigation in Computer-Assisted Orthopedic Surgery," CAR '98, pp. 716-722.
8.		Champleboux, "Utilisation de Fonctions Splines pour la Mise au Point D'un Capteur Tridimensionnel sans Contact," Quelques Applications Medicales, July 1991.
9.		Cinquin et al., "Computer Assisted Medical Interventions," IEEE Engineering in Medicine and Biology, May/June 1995, pp. 254-263.
10.		Cinquin et al., "Computer Assisted Medical Interventions," International Advanced Robotics Programme, September 1989, pp. 63-65.
11.		Clarysse et al., "A Computer-Assisted System for 3-D Frameless Localization in Stereotaxic MRI," IEEE Transactions on Medical Imaging, Vol. 10, No. 4, December 1991, pp. 523-529.
12.		Feldmar et al., "3D-2D Projective Registration of Free-Form Curves and Surfaces," Rapport de recherche (Inria Sophia Antipolis), 1994, pages 1-44.
13.		Foley et al., "Fundamentals of Interactive Computer Graphics," The Systems Programming Series, Chapter 7, July 1984, pp. 245-266.
14.		Foley et al., "Image-guided Intraoperative Spinal Localization," Intraoperative Neuroprotection, Chapter 19, 1996, pp. 325-340.
15.		Foley, "The SteathStation: Three-Dimensional Image-Interactive Guidance for the Spine Surgeon," Spinal Frontiers, April 1996, pp. 7-9
16.		Gildenberg et al., "Calculation of Stereotactic Coordinates from the Computed Tomographic Scan," Neurosurgery, Vol. 10, No. 5, May 1982, pp. 580-586.

Examiner:	Date Considered:
-----------	------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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July 14, 2003	To Be Assigned

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
17.		Gonzalez, "Digital Image Fundamentals," Digital Image Processing, Second Edition, 1987, pp. 52-54.
18.		Gottesfeld Brown et al., "Registration of Planar Film Radiographs with Computer Tomography," Proceedings of MMBIA, June '96, pp. 42-51.
19.		Gueziec et al., "Registration of Computed Tomography Data to a Surgical Robot Using Fluoroscopy: A Feasibility Study," Computer Science/Mathematics, Sept. 27, 1996, 6 pages.
20.		Hamadeh et al, "Kinematic Study of Lumbar Spine Using Functional Radiographies and 3D/2D Registration," TIMC UMR 5525 - IMAG
21.		Hamadeh et al., "Automated 3-Dimensional Computed Tomographic and Fluoroscopic Image Registration," Computer Aided Surgery (1998), 3:11-19.
22.		Hamadeh et al., "Towards Automatic Registration Between CT and X-ray Images: Cooperation Between 3D/2D Registration and 2D Edge Detection," MRCAS '95, pp. 39-46.
23.		Hatch, "Reference-Display System for the Integration of CT Scanning and the Operating Microscope," Thesis, Thayer School of Engineering, October 1984, pp. 1-189.
24.		Henderson et al., "An Accurate and Ergonomic Method of Registration for Image-guided Neurosurgery," Computerized Medical Imaging and Graphics, Vol. 18, No. 4, July-August 1994, pp. 273-277.
25.		Hoerenz, "The Operating Microscope I. Optical Principles, Illumination Systems, and Support Systems," Journal of Microsurgery, Vol. 1, 1980, pages 364-369.
26.		Hofstetter et al., "Fluoroscopy Based Surgical Navigation - Concept and Clinical Applications," Computer Assisted Radiology and Surgery, 1997, pages 956-960.
27.		Hounsfield, "Computerized transverse axial scanning (tomography): Part 1. Description of system," British Journal of Radiology, Vol. 46, No. 552, December 1973, pp. 1016-1022.
28.		Intracardiac Echocardiographic Guidance & Monitoring During Percutaneous Endomyocardial Gene Injection in Porcine Heart, Seung, et al. (Human Gene Therapy 12:893-903 May 20, 2001).

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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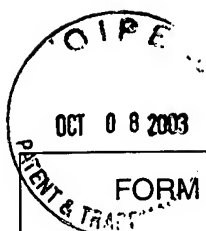
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
29.		Jacques et al., "A Computerized Microstereotactic Method to Approach, 3-Dimensionally Reconstruct, Remove and Adjuvantly Treat Small CNS Lesions," Applied Neurophysiology, Vol. 43, 1980, pp. 176-182.
30.		Jacques et al., "Computerized three-dimensional stereotaxic removal of small central nervous system lesion in patients," J. Neurosurg., Vol. 53, December 1980, pp. 816-820.
31.		Joskowicz et al., "Computer-Aided Image-Guided Bone Fracture Surgery: Concept and Implementation," CAR '98, pp. 710-715.
32.		Kelly et al., "Precision Resection of Intra-Axial CNS Lesions by CT-Based Stereotactic Craniotomy and Computer Monitored CO <sub>2</sub> Laser," Acta Neurochirurgica, Vol. 68, 1983, pp. 1-9.
33.		Lavallee et al., "Matching 3-D Smooth Surfaces with their 2-D Projections using 3-D Distance Maps," SPIE, Vol. 1570, Geometric Methods in Computer Vision, 1991, pp. 322-336.
34.		Lavallee et al., "Computer Assisted Driving of a Needle into the Brain," Proceedings of the International Symposium CAR '89, Computer Assisted Radiology, 1989, pp. 416-420.
35.		Lavallee et al., "Computer Assisted Interventionist Imaging: The Instance of Stereotactic Brain Surgery," North-Holland MEDINFO 89, Part 1, 1989, pp. 613-617.
36.		Lavallee et al., "Computer Assisted Spine Surgery: A Technique For Accurate Transpedicular Screw Fixation Using CT Data and a 3-D Optical Localizer," TIMC, Faculte de Medecine de Grenoble.
37.		Lavallee et al., "Image guided operating robot: a clinical application in stereotactic neurosurgery," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, May 1992, pp. 618-624.
38.		Lavallee et al., "Matching of Medical Images for Computed and Robot Assisted Surgery," IEEE EMBS, Orlando, 1991.
39.		Lavallee, "A New System for Computer Assisted Neurosurgery," IEEE Engineering in Medicine & Biology Society 11 <sup>th</sup> Annual International Conference, 1989, pp. 0926-0927.
40.		Lavallee, "VI Adaption de la Methodologie a Quelques Applications Cliniques," Chapitre VI, pp. 133-148.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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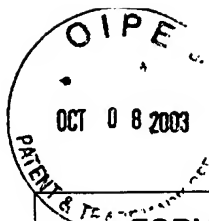
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
41.		Leksell et al., "Stereotaxis and Tomography - A Technical Note," ACTA Neurochirurgica, Vol. 52, 1980, pp.1-7.
42.		Lemieux et al., "A Patient-to-Computed-Tomography Image Registration Method Based on Digitally Reconstructed Radiographs," Med. Phys. 21 (11), November 1994, pp. 1749-1760.
43.		Levin et al., "The Brain: Integrated Three-dimensional Display of MR and PET Images," Radiology, Vol. 172, No. 3, September 1989, pp. 783-789.
44.		Mazier et al., "Computer-Assisted Interventionist Imaging: Application to the Vertebral Column Surgery," Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 1, 1990, pp. 0430-0431.
45.		Mazier et al., Chirurgie de la Colonne Vertebrale Assistee par Ordinateur: Appication au Vissage Pediculaire, Innov. Tech. Biol. Med., Vol. 11, No. 5, 1990, pp. 559-566.
46.		Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain," Journal of Computer Assisted Tomography, January/February 1989, pp. 20-26.
47.		Pelizzari et al., "Interactive 3D Patient-Image Registration," Information Processing in Medical Imaging, 12 <sup>th</sup> International Conference, IPMI '91, July 7-12, 136-141 (A.C.F. Colchester et al. eds. 1991).
48.		Pelizzari et al., No. 528 - "Three Dimensional Correlation of PET, CT and MRI Images," The Journal of Nuclear Medicine, Vol. 28, No. 4, April 1987, p.682.
49.		Phillips et al., "Image Guided Orthopaedic Surgery Design and Analysis," Trans Inst. MC, Vol. 17, No. 5, 1995, pp. 251-264.
50.		Potamianos et al., "Intra-Operative Imaging Guidance for Keyhole Surgery Methodology and Calibration," First International Symposium on Medical Robotics and Computer Assisted Surgery, September 22-24, 1994, pp. 98-104.
51.		Reinhardt et al., "CT-Guided 'Real Time' Stereotaxy," ACTA Neurochirurgica, 1989.
52.		Roberts et al., "A frameless stereotaxic integration of computerized tomographic imaging and the operating microscope," J. Neurosurg., Vol. 65, October 1986, pp. 545-549.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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GROUP

July 14, 2003

To Be Assigned

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
53.		Rosenbaum et al., "Computerized Tomography Guided Stereotaxis: A New Approach," Applied Neurophysiology, Vol. 43, No. 3-5, 1980, pp. 172-173.
54.		Sautot, "Vissage Pediculaire Assiste Par Ordinateur," September 20, 1994.
55.		Selvik et al., "A Roentgen Stereophotogrammetric System," Acta Radiologica Diagnosis, 1983, pp. 343-352.
56.		Shelden et al., "Development of a computerized microstereotaxic method for localization and removal of minute CNS lesions under direct 3-D vision," J. Neurosurg., Vol. 52, 1980, pp. 21-27.
57.		Smith et al., "Computer Methods for Improved Diagnostic Image Display Applied to Stereotactic Neurosurgery," Automedical, Vol. 14, 1992, pp. 371-382.
58.		Viant et al., "A Computer Assisted Orthopaedic System for Distal Locking of Intramedullary Nails," Proc. of MediMEC '95, Bristol, 1995, pp. 86-91.
59.		Watanabe et al., "Three-Dimensional Digitizer (Neuronavigator): New Equipment for Computed Tomography-Guided Stereotaxic Surgery," Surgical Neurology, Vol. 27, No. 6, June 1987, pp. 543-547.
60.		Watanabe, "Neuronavigator," Igaku-no-Ayumi, Vol. 137, No. 6, May 10, 1986, pp. 1-4.
61.		Weese et al., "An Approach to 2D/3D Registration of a Vertebra in 2D X-ray Fluoroscopies with 3D CT Images," pp. 119-128.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.